

GILA RIVER BASIN

09444200 BLUE RIVER NEAR CLIFTON, AZ

LOCATION--Lat 33° 17'27", long 109° 11'44", in sec. 6, T.2 S., R.31 E. (unsurveyed), Greenlee County, Hydrologic Unit 15040004, in Apache National Forest, on right bank 0.1 mi downstream from county road crossing, 0.9 mi upstream from Clear Creek, 8 mi upstream from mouth, and 17 mi northeast of Clifton.

DRAINAGE AREA--506 mi².

PERIOD OF RECORD--Nov. 1967 to Sept. 1991, Oct. 1992 to Sept. 1995 (annual maximum only), Oct. 1995 to current year.

GAGE--Water-stage recorder. Elevation of gage is 4,160 ft above sea level, from topographic map.

REMARKS--Records fair.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 30,000 ft³/s Oct. 20, 1972, gage height, 22.56 ft, from rating curve extended above 960 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 1.4 ft³/s Oct. 18–20, 1978.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 800 ft³/s and (or) maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	July 23	1715	1,440	8.29
	Aug. 19	1700	1,690	8.67
	Sept. 11	0515	*5,590	*12.53

Minimum daily discharge, 0.91 ft³/s June 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	3.8	3.6	8.9	11	11	8.4	5.7	2.5	1.1	8.0	3.8
2	4.8	3.8	3.6	9.1	11	10	8.4	5.6	2.4	1.1	12	3.7
3	4.7	3.7	3.8	9.3	11	10	8.5	5.6	2.4	1.1	13	3.8
4	4.9	3.7	3.9	9.5	11	9.9	8.4	5.4	2.3	1.2	10	3.9
5	4.7	3.9	4.0	9.6	10	9.8	8.6	5.4	2.3	1.3	8.2	3.7
6	4.6	4.1	4.1	9.7	11	9.6	9.1	5.1	2.6	1.1	33	3.5
7	4.6	3.9	4.2	9.8	10	9.4	9.3	5.1	2.5	0.99	15	3.4
8	4.9	3.7	4.3	9.8	10	9.7	8.6	4.9	2.4	1.2	32	3.5
9	4.6	3.7	4.4	9.9	10	9.6	8.4	4.8	2.1	1.4	13	3.7
10	4.3	3.8	4.7	10	10	9.6	8.1	4.6	1.8	1.5	9.5	205
11	4.4	3.7	5.0	10	10	9.5	7.9	4.5	1.6	1.6	8.6	1310
12	4.4	3.7	5.1	10	10	9.5	7.6	4.5	1.5	1.7	8.1	153
13	4.5	3.6	5.2	11	10	9.5	7.6	4.4	1.4	1.4	7.8	74
14	4.4	3.6	5.4	11	10	9.6	8.1	4.3	1.3	1.3	7.6	47
15	4.4	3.5	5.5	11	10	9.7	8.5	4.2	1.2	1.5	8.8	33
16	4.4	3.5	5.6	10	10	9.8	8.9	3.9	1.2	1.7	11	24
17	4.3	3.5	6.0	10	10	9.8	9.1	3.7	1.0	2.1	13	19
18	4.2	3.6	6.5	11	10	9.8	9.1	3.7	1.1	2.0	10	18
19	4.2	3.5	6.7	11	10	9.7	8.8	3.6	1.0	2.7	97	16
20	4.2	3.5	7.0	11	10	9.5	8.6	3.5	0.96	2.2	36	14
21	4.2	3.4	7.2	10	9.9	9.0	8.0	3.5	0.91	2.1	17	12
22	4.2	3.4	7.4	10	9.9	8.9	6.8	3.5	1.5	12	11	11
23	4.2	3.5	7.5	10	10	9.0	6.2	3.4	1.2	109	8.9	10
24	4.1	3.5	8.1	11	9.9	9.2	5.8	3.4	1.1	52	7.3	9.0
25	3.9	3.5	8.2	10	10	9.2	5.9	3.3	1.0	16	6.0	8.1
26	3.8	3.6	8.3	10	10	9.2	5.9	3.2	1.2	14	5.0	7.2
27	3.8	3.6	8.4	10	10	9.1	5.9	3.3	1.2	20	4.3	6.0
28	3.9	3.5	8.4	10	10	9.1	5.8	3.1	1.0	25	4.3	5.4
29	3.8	3.6	8.5	11	---	9.2	5.8	2.9	1.0	33	5.5	4.8
30	3.7	3.6	8.5	11	---	9.1	5.5	2.8	1.1	21	4.5	4.6
31	3.7	---	8.7	11	---	8.4	---	2.6	---	11	4.1	---
TOTAL	133.8	109.0	187.8	315.6	284.7	294.4	231.6	127.5	46.77	345.29	439.5	2024.1
MEAN	4.316	3.633	6.058	10.18	10.17	9.497	7.720	4.113	1.559	11.14	14.18	67.47
MAX	5.0	4.1	8.7	11	11	11	9.3	5.7	2.6	109	97	1310
MIN	3.7	3.4	3.6	8.9	9.9	8.4	5.5	2.6	0.91	0.99	4.1	3.4
AC-FT	265	216	373	626	565	584	459	253	93	685	872	4010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 – 2002, BY WATER YEAR (WY)

(WY)	MEAN	92.19	53.39	75.07	74.36	115.8	154.3	117.8	56.30	15.26	27.46	47.35	46.77
1973	MAX	1027	443	616	569	707	584	488	338	136	136	265	366
1973	MIN	2.58	3.63	3.69	5.35	8.04	8.94	6.69	3.85	1.56	2.42	8.73	2.94
1983	AC-FT	1983	2002	1977	1977	1971	1971	1971	2000	2002	2000	1975	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1968 – 2002

ANNUAL TOTAL	12604.1	4540.06		
ANNUAL MEAN	34.53	12.44	68.22	
HIGHEST ANNUAL MEAN			243	1979
LOWEST ANNUAL MEAN			10.1	1974
HIGHEST DAILY MEAN	524	Apr 6	12400	Oct 20 1972
LOWEST DAILY MEAN	3.4	Nov 21	0.00	Jan 23 1992
ANNUAL SEVEN-DAY MINIMUM	3.5	Nov 19	0.00	Aug 21 1992
ANNUAL RUNOFF (AC-FT)	25000	9010	49420	
10 PERCENT EXCEEDS	91	11	151	
50 PERCENT EXCEEDS	12	5.9	18	
90 PERCENT EXCEEDS	3.9	1.8	4.7	